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To the Claims:

1. (Currently Amended) A method for dynamically adjusting frequency of a central

processing unit, comprising:

providing a translation table, comprising a plurality of layers, each of the layers defining a

set of a plurality of front-end bus operation frequencies corresponding front-side bus operation

frequency and a corresponding range of a central processing unit usage rate;

obtaining a current usage rate of the central processing unit; and

comparing the current usage rate with entries in the translation table, adjusting one of the

front end frequencies the front-side bus operation frequency to a corresponding layer, so as to

locate the current usage rate in the corresponding range of the central processing unit usage rate.

2. (Currently Amended) The method for dynamically adjusting central processing unit

frequency as recited in claim 1, wherein the translation table is built according to the following

steps:

detecting whether the method is firstly performing on a machine;

progressively tuning maximum of a clocking range for a processor of the machine; and

establishing a plurality of layers according to the clocking range, wherein the translation

table is defined for the front-end front-side bus operation frequency of the central processing unit

vs. a usage rate.

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3. The method for dynamically adjusting central processing unit frequency as recited in

claim 2, wherein a frequency down-conversion is performed in the translation table when battery

power is supplied, and a frequency up-conversions is performed in the translation table when

external power is supplied.

4. The method for dynamically adjusting central processing unit frequency as recited in

claim 1, wherein an interval between the layers is one million hertz.

5. The method for dynamically adjusting central processing unit frequency as recited in

claim 1, wherein the obtaining the current usage rate is performed by measuring with software.

6. The method for dynamically adjusting central processing unit frequency as recited in

claim 1, wherein the obtaining the current usage rate is performed by measuring with operation

system.

7. (Currently Amended) The method for dynamically adjusting central processing unit

frequency as recited in claim 1, wherein when comparing the current usage rate and the

translation table, the layer is raised to an upper layer if the current usage rate is higher than the

current layer, so as to up-convert the front end-bus front-side bus operation frequency.

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8. (Currently Amended) The method for dynamically adjusting central processing unit frequency as recited in claim 1, wherein when comparing the current usage rate and the translation table, the layer is dropped to an lower layer if the current usage rate is lower than the current layer, so as to down-convert the front-end-bus front-side bus operation frequency.